

**DIRECTORATE OF DISTANCE EDUCATION  
NALSAR UNIVERSITY OF LAW, HYDERABAD**

***Advanced Diploma in Cyber Security & Data Protection Laws***

**Academic Year: 2023-2024**

**Second Semester Examination (June, 2024)**

**Paper II - 1.2.5. Cyber Security and Forensics  
LAB Sessions: - Digital Evidence Retrievals  
and Analysis Systems (DERAS)**

**Duration of the Examination: 2 ½ hours**

**Total Marks: 50 marks**

**INSTRUCTIONS TO CANDIDATES**

- a) Read the instructions carefully and adhere to the same.
  - b) Please mention your DDE ID No., date of the exam, name of the programme & subject on the Answer Sheet and the Additional Answer Sheets, if any.
  - c) The questions to be interpreted as given and no clarification can be sought from the Invigilator.
  - d) Clearly indicate the question numbers while answering them. Answers without question numbers / wrong question numbers will not be evaluated.
  - e) Write the answers clearly and neatly. Answers in illegible handwriting will not be taken into consideration.
  - f) Candidates are prohibited to carry phones or any other electronic devices, books, material etc. in the Examination Hall.
  - g) Copying is strictly prohibited and is considered as a serious academic misconduct and the University will take action as it deems fit.
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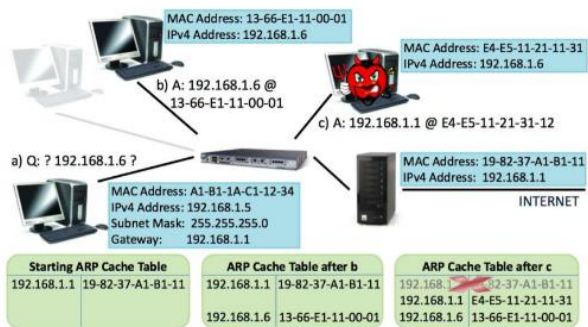
**1. Explain the following Cyber Crimes with a real-time example each: (10 marks)**

- a. XSS Cross Site Scripting
- b. XSRF Cross-Site request forgery (XSRF)

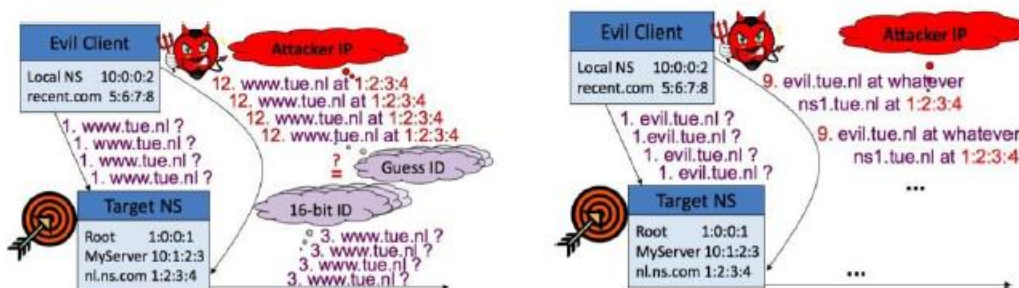
**2. Define Cyber Forensics with reference to each and every stage involved in Cyber Forensics life cycle. Further, explain the process of conducting Cyber Forensics on a crime scene using Imaging tools like Access data FTK and Autopsy tool kit. While explaining Autopsy, describe all the derivatives and possible result sets generated and its significance in a Cyber-crime scene investigation. (20 Marks)**

3. Illustrate the following Cyber Crimes with a real-time example derived from your own understanding : **(10 marks)**

### I. ARP spoofing



### II. DNS Poisoning Attack



4. Explain the various functionalities of Application Layer Protocol and how it has resolved the issues involved in data communication in a networked environment with an example. **(10 Marks)**